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	M PTO- IFIED	-1390	390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 620-349	
TRANSMITTAL LETTER TO THE UNITED STATES  U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)						
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371  LU/210 2 2 5 To Be Assigned						
INTE			APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED	
		PC 1/G	B03/02314	29 May 2003	30 May 2002	
TITLE OF INVENTION PHOTONIC SWITCH WORKING IN MOMENTUM-DIVISION-MULTIPLE-ACCESS (MDMA) MODE FOR MICROWAVE AND OPTICAL WAVELENGTHS BASED UPON THE MEASUREMENT OF THE SPIN, THE ORBITAL ANGULAR MOMENTUM AND THE TOTAL ANGULAR MOMENTUM OF THE INVOLVED PHOTONS						
APPLICANT(S) FOR DO/EO/US  PADGETT et al						
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:						
1.						
2.		This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.				
3.	⊠	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include				
•-	_	items (5), (6), (9) and (21) indicated below.				
4.		The U.S. has been elected by the expiration of 19 months from the priority date (Article 31).				
5.	A co	opy of the International Application as filed (35 U.S.C. 371(c)(2)).				
	a.	is attached hereto (face pages (2 sheets), 49 pages specification, 63 claims, 9 sheets drawings).				
	b.	⊠ r	nas been communicate	ted by the International Bureau.	•	
	C.	☐ i	s not required, as the	application was filed in the United States Rec	ceiving Office (RO/US).	
6.		An English language translation				
	a. abst	of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto ( pages specification, claims & tract ( claims), sheets drawings, page Certificate of Translation).				
	b.	of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)).				
7.	$\boxtimes$	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))				
	a.	□ €	are attached hereto (re	equired only if not communicated by the Interr	national Bureau).	
	b.	☐ t	nave been communica	ated by the International Bureau.	•	
	C.	□ t	nave not been made; h	however, the time limit for making such amen	dments has NOT expired.	
	d.	⊠ h	have not been made a	ınd will not be made.		
8.		An En	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).			
9.	a.	□ F	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).			
	b. Forn			nitted to the International Bureau during Interna T/IB/371 and first page of printed publication a		
10.		e item 6.b. above. ms 11 To 20 below concern document(s) or information included:				
11.	$\boxtimes$	An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98 w/PTO-1449 Form and Intl Search Report.				
12.		An ass	signment document fo	or recording. A separate cover sheet in compl	liance with 37 C.F.R. 3.28 and 3.31 is included.	
13.	$\boxtimes$	A FIRS	ST preliminary amend	lment.		
14.		A SECOND or SUBSEQUENT preliminary amendment.				
15.		A substitute specification.				
16.		A change of power of attorney and/or address letter.				
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.				
18.		A second copy of the published international application under 35 U.S.C. 154(d)(4).				
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).				
20	ΙZΙ	Other items or information. Amonded Claims Shoots				

U.S. APPLICATION NO INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER 620-349 PCT/GB03/02314 CALCULATIONS PTO USE ONLY ★ The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO......\$1110.00 International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ......\$950.00 International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO......\$790.00 International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ......\$750.00 International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ......\$100.00 **ENTER APPROPRIATE BASIC FEE AMOUNT =** 950.00 Surcharge of \$130.00 for furnishing the oath or declaration later than 20 🛛 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)). 130.00 NUMBER FILED NUMBER EXTRA RATE CLAIMS **Total Claims** 16 minus 20 = Х \$18.00 \$ 0.00 0 Independent Claims 4 minus 3 = 1 Х \$88.00 88.00 MULTIPLE DEPENDENT CLAIMS(S) (if applicable) \$300.00 \$ 0.00 Petition is hereby made to extend the current due date so as to cover the filing date of this paper and \$ attachment(s) (\$110.00/1 month; \$430.00/2 months; \$980.00/3 months 0.00 1168.00 TOTAL OF ABOVE CALCULATIONS = Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. SUBTOTAL = 1168.00 Processing fee of \$130.00, for furnishing the English Translation later than \( \subseteq 20 \subseteq 30 \) months from the earliest claimed priority date (37 C.F.R. 1.492(f)). 0.00 TOTAL NATIONAL FEE = 1168.00 Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property 0.00 0.00 Fee for Petition to Revive Unintentionally Abandoned Application (\$1370.00 - Small Entity = \$685.00) \$ TOTAL FEES ENCLOSED = 1168.00 Amount to be: refunded Charged A check in the amount of \$1168.00 to cover the above fees is enclosed. a. Please charge my Deposit Account No. 14-1140 in the amount of \$ b. to cover the above fees. A duplicate copy of this form is enclosed. c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed. d. CREDIT CARD PAYMENT FORM ATTACHED. The entire content of International Application No. PCT/GB03/02314 and any U.S. and foreign application(s) corresponding thereto, and GB 0212551.6, referred to in this application is/are hereby incorporated by reference in this application. NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status. **CORRESPONDENCE ADDRESS** Direct all correspondence to: **Customer Number:** 23117 Type Customer Number here Telephone: (703) 816-4000 Wilson Mary MJW:tat NAME November 30, 2004 **REGISTRATION NUMBER** Date